

**YOUR EXPERTS  
IN METAL  
CHIPS**



**SINCE 1960**

**AUTOMATED TRANSPORT,  
TREATMENT, AND STORAGE  
OF METAL CHIPS AND  
COOLANT RECOVERY**





**1960**

ALFREDO GOVONI  
FOUNDS  
TRASPORTATORI  
GOVONI,  
SPECIALIZING IN  
AGRICULTURAL  
AUTOMATION

**1978**

EXPANSION  
INTO THE  
TRANSPORT OF  
BULK AND  
PACKAGED  
MATERIALS



**1986**

START OF METAL  
CHIP TRANSPORT  
RESEARCH WITH  
THE UNIVERSITY  
OF BOLOGNA –  
FACULTY OF  
MECHANICAL  
ENGINEERING

**1988**

NATIONAL AND  
INTERNATIONAL  
PATENT GRANTED  
FOR SCREW  
TECHNOLOGY

**1990**

1st SCREW CHIP  
EVACUATOR  
INSTALLED ON A  
MACHINE TOOL

**1994**

INSTALLATION OF  
THE 1st  
CENTRALIZED CHIP  
CONVEYING  
SYSTEM WITH  
SCREW  
TECHNOLOGY

**2016**

PROTOTYPING &  
LAUNCH OF  
VACUUM  
SYSTEMS



**2019**

PROTOTYPING  
AND LAUNCH OF  
THE NEW  
SHREDDER LINE



**2022**

ACHIEVING THE  
MAJOR  
MILESTONE OF  
400+  
CENTRALIZED  
CHIP SYSTEMS  
INSTALLED IN  
ITALY AND  
WORLDWIDE



**2024**

REFINEMENT AND  
STANDARDIZATION  
OF THE CHIP  
TREATMENT AND  
COOLANT  
RECOVERY KITS

## HISTORY

**Govoni Handling Systems Srl** is an Italian family-run company that, since 1960, has been designing and manufacturing handling systems for waste materials and that, since the late 80s, has concentrated its focus on the sector of **automated transport, treatment, and storage of metal chips and coolant recovery**.

A **scientific approach to technological evolution** and a **constant support of customers in choosing the most suitable solution** for them have characterized the company's long activity over the years.

The numerous tests carried out internally with the most varied metallic materials and a **constant improvement and perfection of the products** have allowed the Govoni team to accumulate such a vast experience that it has earned the title of **“metal chip experts”** both nationally and internationally.

Our **corporate mission** is to make **work safer** and **more performing**, with a strong focus to **ecology**, which we consider one of the fundamental priorities of our work.

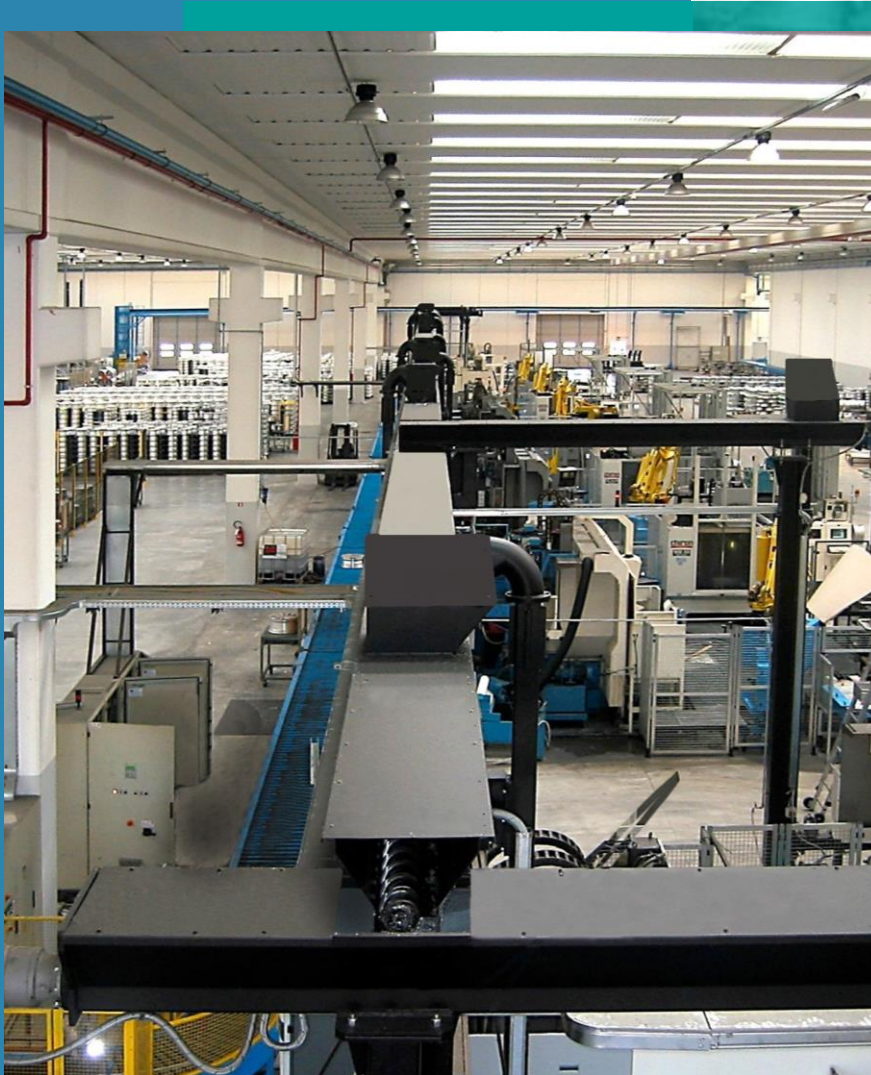
The installed systems, in fact, improve environment in workshops, reducing the impact of fumes and odors and the contact of operators with dangerous and harmful materials. Furthermore, we help our customers **recover waste materials automatically, preparing them for the recycling process through separation from polluting fluids**, which are then purified to allow their reuse in the internal production process.

Govoni Handling Systems has installed **over 400 automated systems for metal chips** in Italy and the rest of the world (Germany, Poland, Romania, Kazakhstan, Mexico, USA, Argentina, and Saudi Arabia), establishing itself as a solid and reliable partner for its customers.

# CENTRALIZED CHIP TRANSPORT SYSTEMS FROM THE MACHINE TOOL TO THE COLLECTION AREA

## BENEFITS

- ❑ Ecology and healthier environments
- ❑ No more fumes from oil or from any other harmful substances
- ❑ Space optimization
- ❑ Complete automation without the need of any supervision
- ❑ No more carts under machine tools
- ❑ No more forklifts coming and going
- ❑ Significant labor-savings
- ❑ No more contact between operators and metal chips
- ❑ Fully protected moving parts
- ❑ Electric interlocks on high-risk access points
- ❑ Latest generation 5.0 remote control panels
- ❑ Maintenance alerts on display
- ❑ Digital signal exchange with machine tools
- ❑ Cutting-edge digital diagnostics
- ❑ Full service and teleservice



# CENTRALIZED CHIP CONVEYING SYSTEMS WITH SCREW TECHNOLOGY



- ❑ **Multidirectionality of the conveyors with horizontal, inclined, vertical, and overhead development**
- ❑ **Footprint reduction thanks to vertical conveyors**
- ❑ **Universal conveying for any chip morphology and any type of metal**
- ❑ **High durability and wear resistance thanks to a special heat treatment**
- ❑ **Minimized maintenance and spare parts**
- ❑ **Chip volume reduction achieved through simple transport**

- ❑ **Increased throughput with the same installed power**
- ❑ **Major energy savings: a single motor can handle up to 100 meters of conveyor**
- ❑ **Modularity and flexibility: the system can be easily expanded in steps and relocated to another site along with all machines**
- ❑ **Maximum safety even with metals at risk of ignition**
- ❑ **Chip pre-filtration and drying through self-cleaning devices for preliminary coolant separation**
- ❑ **Minimum excavation depth for in-pit installations and total absence of civil works for overhead systems**

**FOR ANY KIND OF CHIP SHAPE AND MATERIAL**



CHIP STORAGE SILO

OVERHEAD SCREW COLLECTOR

VERTICAL SCREW COLLECTOR

SHREDDER

CENTRIFUGE

FILTER TANK

MAIN OVERHEAD SCREW COLLECTOR

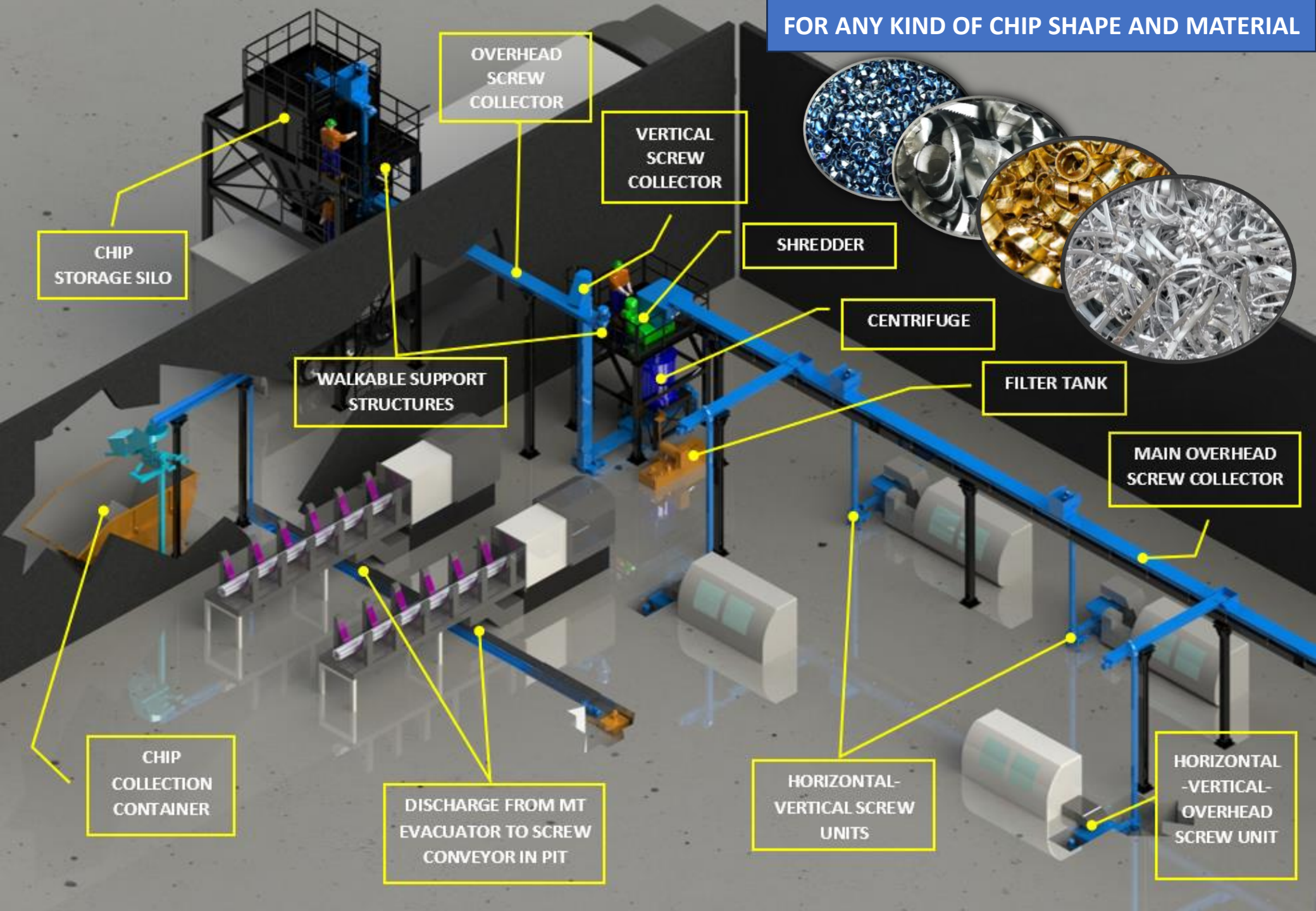
WALKABLE SUPPORT STRUCTURES

CHIP COLLECTION CONTAINER

DISCHARGE FROM MT EVACUATOR TO SCREW CONVEYOR IN PIT

HORIZONTAL-VERTICAL SCREW UNITS

HORIZONTAL-VERTICAL-OVERHEAD SCREW UNIT





# CENTRALIZED CHIP CONVEYING SYSTEMS WITH VACUUM TECHNOLOGY



- ❑ Low investment costs, even with long distances and numerous machine parks
- ❑ Layout flexibility even with non-aligned machines and easy adaptation to future layout changes
- ❑ Future expandability through piping network extensions or additional lines
- ❑ Dedicated lines available to keep different materials separate
- ❑ Reduced footprint and minimal visual impact in the workshop

- ❑ Layout ergonomics with piping positioned at optimal heights to ensure safe vehicle movement
- ❑ Universal transport for powdery, short, and flaky chips, as well as for long chips to be shredded under the machine
- ❑ Installation with no production stops and no excavations
- ❑ Easy system relocatability thanks to modularity and simple construction
- ❑ Safety and cleanliness thanks to completely enclosed, leak-proof pipes that eliminate fumes, dust, and odors

# FLEXIBILITY, COMPACT DESIGN, FOR MULTI-MATERIAL SEPARATION

STRUCTURE FOR  
SILO INSPECTION

DELIVERY PIPE  
TO SILO

DOWN PIPES TO  
MACHINES

CHIP  
STORAGE  
SILO

WALKABLE SUPPORT  
STRUCTURE

MAIN CHIP  
TRANSPORT  
PIPELINE

ROTARY  
LOBE  
BLOWER

BACK-UP  
FILTER

CENTRIFUGE

ROTARY  
VALVE

SIMPLE SUB-MACHINE UNIT

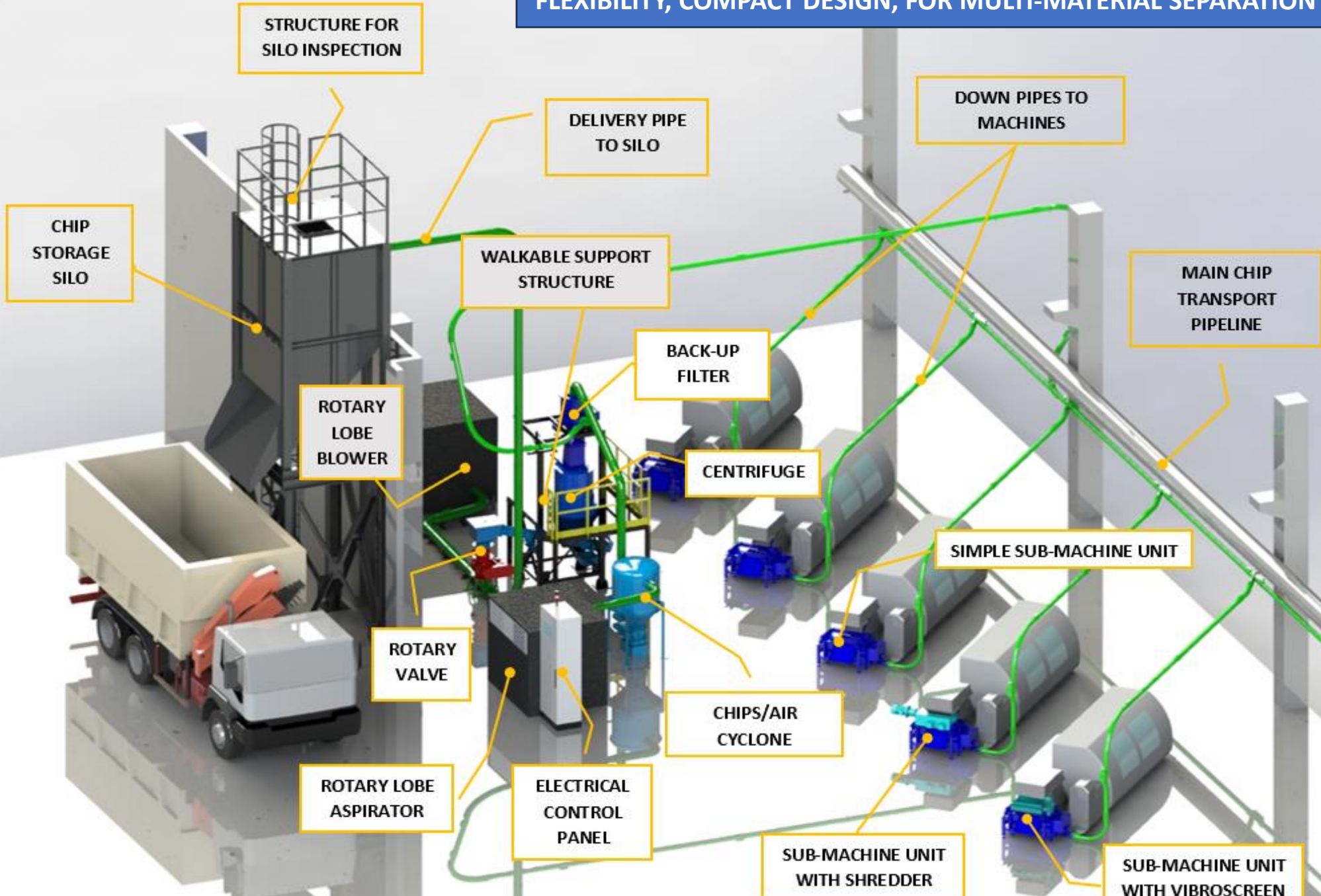
ROTARY LOBE  
ASPIRATOR

ELECTRICAL  
CONTROL  
PANEL

CHIPS/AIR  
CYCLONE

SUB-MACHINE UNIT  
WITH SHREDDER

SUB-MACHINE UNIT  
WITH VIBROSCREEN





## CHIP TREATMENT KITS

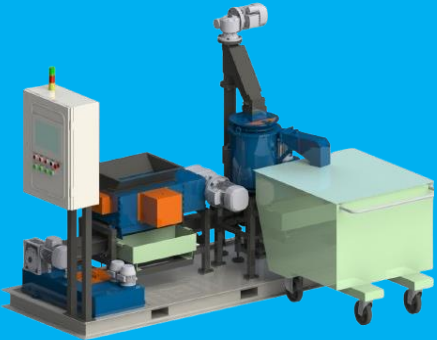
- ❑ Oil recovery with a drying rate of up to 99.8%
- ❑ Pollutant disposal costs savings of up to 70%
- ❑ Increased profit from scraps sold as secondary raw material rather than special waste
- ❑ Labor savings thanks to the large hopper that allows for material accumulation freeing up the operator
- ❑ Healthier and safer workplace with no oil leaks on the floor or unpleasant fumes
- ❑ Maximum compactness and minimal footprint
- ❑ Easy transportability by forklift for systems equipped with a forkable base
- ❑ Reduced environmental impact as chips leave the workshop dry and free from coolant leachates
- ❑ Quick installation via plug-and-play connection
- ❑ Maximum safety with no more direct contact between operators and chips
- ❑ Latest-generation remote control panels
- ❑ Routine and extraordinary maintenance alerts on display
- ❑ Cutting-edge digital diagnostics with data collection and archiving for Industry 5.0 transition
- ❑ Integrated teleservice for remote problem identification and intervention
- ❑ Wide range of models and accessories specifically designed and tested according to materials and customer requirements



# CHIP TREATMENT AND OIL RECOVERY KITS

## CUT & DRY

for long and tangled chips discharged from a machine tool even with solid pieces



## KID

for short or chopped chips accumulated inside carts



## ZED

for short or long chips accumulated inside carts even with solid pieces



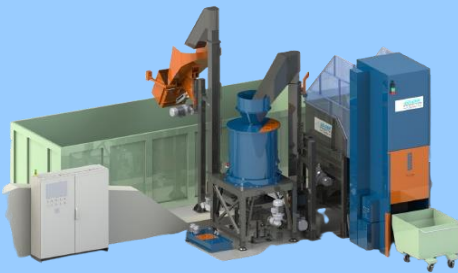
## SLIM

for large quantities of short, medium and long chips accumulated inside carts



## SLIM-SR

for high quantities of short and medium chips to be automatically discharged into the outside container



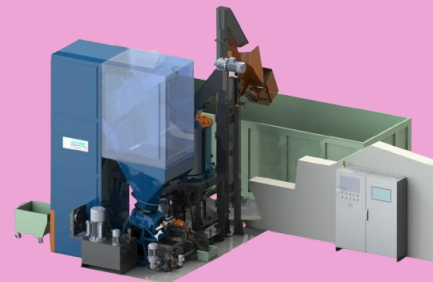
## GENIUS

for long, tangled and bushy chips accumulated inside carts even with end bars and workpieces



## GENIUS-SR

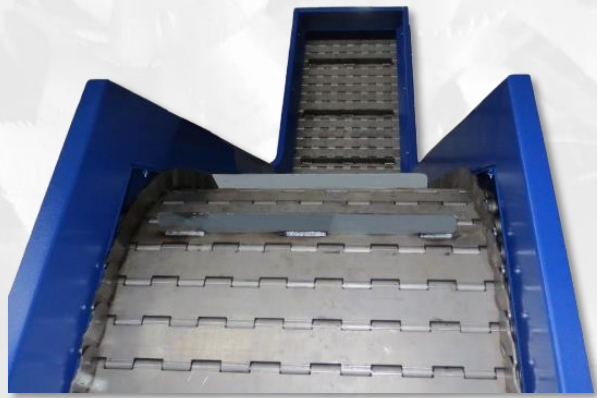
for long, tangled and bushy chips to be automatically discharged into the outside container even with end bars and workpieces



## GENIUS-SL

for long, tangled and bushy chips to be stored in one or more silos even with end bars and workpieces





## HINGED BELT CONVEYORS

- ❑ Ideal as machine tool chip evacuator
- ❑ Suitable for transporting scraps, solid pieces, and chips of all kinds
- ❑ Cost-effective and well-established technology based on traditional construction standards
- ❑ Maximum reliability even in continuous and unattended processes
- ❑ Increased throughput available
- ❑ No material leakage between plates
- ❑ Flexible in width and length
- ❑ Stable even on long sections
- ❑ Available in-line or with single and double curves
- ❑ Wide variety of belts with different chain pitches
- ❑ Easily integrable into centralized systems
- ❑ Protected, safe and inspectable systems
- ❑ With perfectly integrated coolant collection tank
- ❑ Wide range of available accessories

## APRON (OVERLAPPED PLATES) CONVEYORS

- ❑ Ideal for transporting heavy-duty loads and workpieces
- ❑ Suitable for conveying chips, swarf, and high-temperature parts
- ❑ High load capacity guaranteed by the specific plate design
- ❑ Engineered for maximum robustness and long-term durability
- ❑ Maximum reliability even in continuous and unattended processes
- ❑ Higher capacity available
- ❑ No material leakage between plates
- ❑ Flexible in width and length
- ❑ Stable even on long sections
- ❑ Available in-line or with single and double curves
- ❑ Easily integrable into centralized systems
- ❑ Protected, safe and inspectable systems
- ❑ With perfectly integrated coolant collection tank
- ❑ Wide range of available accessories



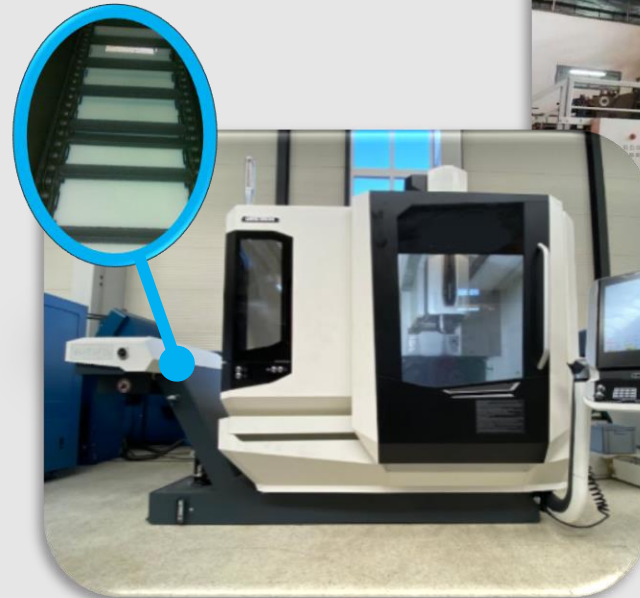
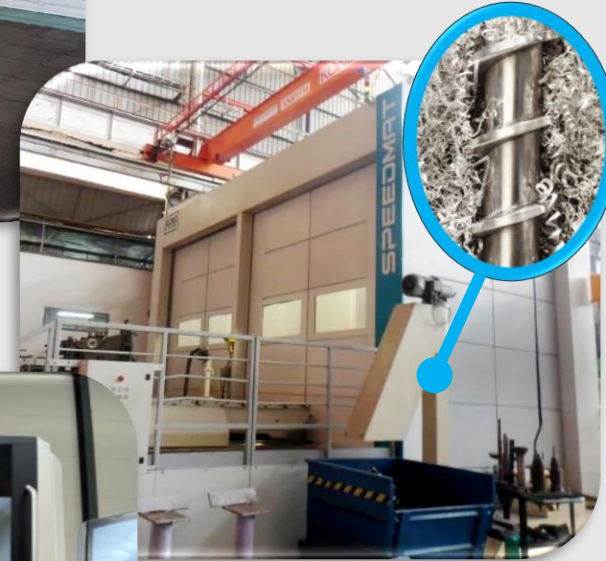


**CHIP EVACUATORS  
FOR MACHINE TOOLS**

**HINGED BELT EVACUATORS**



**SCREW EVACUATORS**



**DRAG-CHAIN EVACUATORS**

# COOLANT FILTRATION

## MAGNETIC FILTERS



- ❑ Capture large amounts of ferrous contaminants
- ❑ Low investment and high-profitability technology
- ❑ High performance even with neat oil
- ❑ Self-cleaning
- ❑ Minimal maintenance
- ❑ No materials to be disposed of
- ❑ Combinable with other filtration systems
- ❑ Modular design for in-line installations with two or more units
- ❑ Low energy consumption

## GRAVITY BAND FILTERS



- ❑ High capture capacity for fine-grained contaminants
- ❑ Simple and automatic control
- ❑ Maximum filtration efficiency even with neat oil
- ❑ Minimal maintenance
- ❑ Extremely quick filter media replacement
- ❑ High-performance components designed for long-term durability
- ❑ Low energy consumption

## SELF-CLEANING DRUM FILTERS



- ❑ Maximum efficiency even with high flow rates
- ❑ Excellent performance even with neat oil
- ❑ Self-cleaning
- ❑ Minimal maintenance
- ❑ No materials to be disposed of
- ❑ Modular design for in-line installations with two or more drums
- ❑ Low energy consumption



## CENTRALIZED FILTRATION SYSTEMS



- ❑ Ecology and healthier environments
- ❑ No more fumes of oil or of any other harmful substances
- ❑ Modular and flexible systems
- ❑ Space optimization
- ❑ Complete automation of the polluted/filtered circuits without supervision
- ❑ Customization of the system tailored to suit customer's needs
- ❑ Maximum fluid regeneration without waste
- ❑ No more local machine tanks
- ❑ Lower consumption of new oil
- ❑ No more forklifts coming and going to remove sludge bins
- ❑ No waste materials
- ❑ Big labour-savings
- ❑ No more contact between operators and harmful substances
- ❑ Latest generation remote control electrical panels
- ❑ Digital signal exchange with machine tools
- ❑ Cutting-edge digital diagnostics
- ❑ Full service and teleservice



# SHREDDERS



## SINGLE-SHAFT SHREDDERS

- ❑ Very compact dimensions
- ❑ Ideal to install under a machine evacuator
- ❑ Suitable for shredding small quantities of chips to be centrifuged or briquetted
- ❑ Drastic chip volume reduction of up to 80%
- ❑ Core-hardened teeth with high wear resistance, easily replaceable
- ❑ High reliability even in continuous operation
- ❑ Quick installation
- ❑ Low noise level
- ❑ Available version with automatic piece ejector



## DOUBLE-SHAFT SHREDDERS

- ❑ Ideal for long and bushy chips discharged from a conveyor
- ❑ High grinding power guaranteed by the crossing of circular blades
- ❑ Drastic chip volume reduction of up to 80%
- ❑ Robust and efficient even with tough materials and high flow rates
- ❑ Core-hardened blades and counter-blades with high wear resistance
- ❑ High reliability even in the most severe operating conditions
- ❑ Quick installation

## VERTICAL SHREDDERS

- ❑ Ideal for voluminous chip skeins discharged from bins or carts
- ❑ Robust and efficient even with tough materials and flow rate peaks
- ❑ Drastic chip volume reduction of up to 80%
- ❑ High grinding power guaranteed by its specific geometric design
- ❑ No chips floating thanks to the skein pusher
- ❑ Grinding chamber with anti-wear coating
- ❑ Core-hardened blades and cutting inserts with high wear resistance
- ❑ Easy inspection and component replacement
- ❑ High reliability even in continuous operation
- ❑ Automatic separation of a wide range of bar ends and non-shreddable parts



## CENTRIFUGES



## SILOS



## CART LIFT-DUMPERS



## CONTAINER FILLING SYSTEM



# SERVICES



**CONSULTING**



**STAFF TRAINING**



**SPARE PARTS**



**REVAMPING**

**INSTALLATION  
AND TESTING**

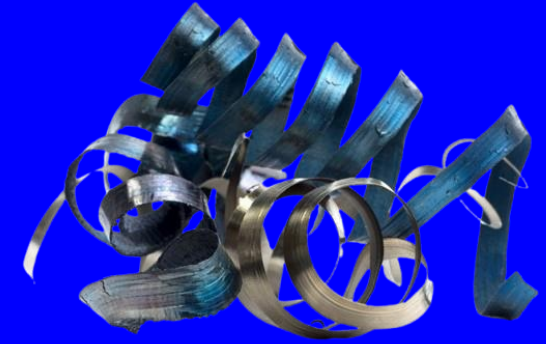


**ASSISTANCE AND  
TELESERVICE**



**MAINTENANCE &  
FULL SERVICE**





# Products

- Centralized screw systems for metal chips transport
- Centralized pneumatic vacuum systems for metal chips transport
- Chips treatment and oil recovery kits
- Apron belt conveyors
- Hinged belt conveyors
- Machine tools evacuators
  - Hinged belt evacuators
  - Screw evacuators
  - DUO evacuators
- Coolant filtration
  - Magnetic filters
  - Gravity band filters
  - Self-cleaning drum filters
  - Centralized filtration systems
- Shredders
  - Single-shaft shredders
  - Double-shaft shredders
  - Vertical shredders
- Centrifuges
- Cart lift dumpers
- Chip storage silos

# Contacts

## GOVONI HANDLING SYSTEMS SRL

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